

Applicant:	Vela Optoelectronics (Suzhou) Co., Ltd
Address of Applicant:	Building B, Advanced Laser (Equipment) Industrial Park, Xinchuang Road, Daxin Zhen, Zhangjiagang, Suzhou, Jiangsu province, China
Manufacturer :	Vela Optoelectronics (Suzhou) Co., Ltd
Address of Manufacturer :	Building B, Advanced Laser (Equipment) Industrial Park, Xinchuang Road, Daxin Zhen, Zhangjiagang, Suzhou, Jiangsu province, China
Equipment Under Test (El	JT)
Product Name:	HANDHELD LIBS
Model No.:	P-1
Series model:	P-1PLUS, P-1PRO, P-1CUSTOM, P-2, P-2PLUS, P-2PRO, P-2CUSTOM, P-3, P-3PLUS, P-3PRO, P-3CUSTOM
Trade Mark:	PEGASUSLIBS
FCC ID:	2ASU3-P-1
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Date of sample receipt:	Jun.14,2022
Date of Test:	Jun.14,2022~Jun.20,2022
Date of report issued:	Jun.20,2022
Test Result :	PASS *

* In the configuration tested, the EUT complied with the standards specified above.



1. Version

Version No.	Date	Description
00	Jun.20,2022	Original

Tested/ Prepared By

Ervin Ju Date:

Jun.20,2022

Project Engineer

Check By:

Bruce Zhu Date:

Jun.20,2022

Reviewer

Approved By :

Kein Yang

Date:

Jun.20,2022

Authorized Signature



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3. Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	N/A
Conducted Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Remarks:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. Test according to ANSI C63.10:2013

Measurement Uncertainty

Test Item	Test Item Frequency Range		Notes		
Radiated Emission30~1000MHz3.45 dB					
Radiated Emission	Radiated Emission 1~6GHz 3.54 dB				
Radiated Emission6~40GHz5.38 dB					
Conducted Disturbance 0.15~30MHz 2.66 dB					
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.					



4. General Information

4.1. General Description of EUT

Product Name:	HANDHELD LIBS
Model No.:	P-1
Series model:	P-1PLUS, P-1PRO, P-1CUSTOM, P-2, P-2PLUS, P-2PRO, P-2CUSTOM, P-3, P-3PLUS, P-3PRO, P-3CUSTOM
Test sample(s) ID:	HTT202206069-1(Engineer sample) HTT202206069-2(Normal sample)
Operation frequency	2402~2480 MHz
Number of Channels	40
Modulation Type	GFSK
Channel separation	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	0 dBi
Power Supply:	DC 14.8V From Battery
Adapter Information	Mode: vela 1608-2 Input: AC100-240V, 50/60Hz, 1.5A Output: DC 16.8, 2000mA



Channel	Frequency(MHz)	Channel	Frequency(MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz



4.2. Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

4.3. Description of Support Units

None.

4.4. Deviation from Standards

None.

4.5. Abnormalities from Standard Conditions

None.

4.6. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 779513 Designation Number: CN1319

Shenzhen HTT Technology Co.,Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6435.01

Shenzhen HTT Technology Co.,Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

4.7. Test Location

All tests were performed at:

Shenzhen HTT Technology Co.,Ltd.

1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel: 0755-23595200 Fax: 0755-23595201

4.8. Additional Instructions

Test Software	Special AT test command provided by manufacturer to Keep the EUT in continuously transmitting mode and hopping mode
Power level setup	Default



	Inventory Cal.Date Cal.Due date						
ltem	Test Equipment	Manufacturer	Model No.	No.	(mm-dd-yy)	(mm-dd-yy)	
1	3m Semi- Anechoic Chamber	Shenzhen C.R.T technology co., LTD	9*6*6	HTT-E028	Aug. 10 2020	Aug. 09 2024	
2	Control Room	Shenzhen C.R.T technology co., LTD	4.8*3.5*3.0	HTT-E030	Aug. 10 2020	Aug. 09 2024	
3	EMI Test Receiver	Rohde&Schwar	ESCI7	HTT-E022	May 23 2022	May 22 2023	
4	Spectrum Analyzer	Rohde&Schwar	FSP	HTT-E037	May 23 2022	May 22 2023	
5	Coaxial Cable	ZDecl	ZT26-NJ-NJ-0.6M	HTT-E018	May 23 2022	May 22 2023	
6	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-2M	HTT-E019	May 23 2022	May 22 2023	
7	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-0.6M	HTT-E020	May 23 2022	May 22 2023	
8	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-8.5M	HTT-E021	May 23 2022	May 22 2023	
9	Composite logarithmic antenna	Schwarzbeck	VULB 9168	HTT-E017	Aug. 22 2021	Aug. 21 2022	
10	Horn Antenna	Schwarzbeck	BBHA9120D	HTT-E016	Aug. 22 2021	Aug. 21 2022	
11	Loop Antenna	Zhinan	ZN30900C	HTT-E039	Aug. 22 2021	Aug. 21 2022	
12	Horn Antenna	Beijing Hangwei Dayang	OBH100400	HTT-E040	Aug. 22 2021	Aug. 21 2022	
13	low frequency Amplifier	Sonoma Instrument	310	HTT-E015	May 23 2022	May 22 2023	
14	high-frequency Amplifier	HP	8449B	HTT-E014	May 23 2022	May 22 2023	
15	Variable frequency power supply	Shenzhen Anbiao Instrument Co., Ltd	ANB-10VA	HTT-082	May 23 2022	May 22 2023	
16	EMI Test Receiver	Rohde & Schwarz	ESCS30	HTT-E004	May 23 2022	May 22 2023	
17	Artificial Mains	Rohde & Schwarz	ESH3-Z5	HTT-E006	May 23 2022	May 22 2023	
18	Artificial Mains	Rohde & Schwarz	ENV-216	HTT-E038	May 23 2022	May 22 2023	
19	Cable Line	Robinson	Z302S-NJ-BNCJ-1.5M	HTT-E001	May 23 2022	May 22 2023	
20	Attenuator	Robinson	6810.17A	HTT-E007	May 23 2022	May 22 2023	
21	Variable frequency power supply	Shenzhen Yanghong Electric Co., Ltd	YF-650 (5KVA)	HTT-E032	May 23 2022	May 22 2023	
22	Control Room	Shenzhen C.R.T technology co., LTD	8*4*3.5	HTT-E029	May 23 2022	May 22 2023	
23	DC power supply	Agilent	E3632A	HTT-E023	May 23 2022	May 22 2023	
24	EMI Test Receiver	Agilent	N9020A	HTT-E024	May 23 2022	May 22 2023	
25	Analog signal generator	Agilent	N5181A	HTT-E025	May 23 2022	May 22 2023	
26	Vector signal generator	Agilent	N5182A	HTT-E026	May 23 2022	May 22 2023	
27	Power sensor	Keysight	U2021XA	HTT-E027	May 23 2022	May 22 2023	
28	Temperature and humidity meter	Shenzhen Anbiao Instrument Co., Ltd	TH10R	HTT-074	May 23 2022	May 22 2023	
29	Radiated Emission Test Software	Farad	EZ-EMC	N/A	N/A	N/A	
30	Conducted Emission Test Software	Farad	EZ-EMC	N/A	N/A	N/A	
31	RF Test Software	panshanrf	TST	N/A	N/A	N/A	

5. Test Instruments list

Shenzhen HTT Technology Co.,Ltd.

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6. Test results and Measurement Data

6.1. Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207			
Test Method:	ANSI C63.10:2013			
Test Frequency Range:	150KHz to 30MHz Class B RBW=9KHz, VBW=30KHz, Sweep time=auto			
Class / Severity:				
Receiver setup:				
Limit:	Frequency range (MHz)	Limit (dBuV) Quasi-peak Averag		ne
	0.15-0.5	66 to 56*	56 to 4	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the logarithn	n of the frequency.		
Test setup: Test procedure:	Reference Plane LISN 40cm 80cm Filter AC power Equipment E.U.T EMI Receiver Remark: E.U.T Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m 1. The E.U.T and simulators are connected to the main power through a			
	 line impedance stabilization 50ohm/50uH coupling impedance 2. The peripheral devices are LISN that provides a 50ohm termination. (Please refer to photographs). 3. Both sides of A.C. line are interference. In order to find positions of equipment and according to ANSI C63.10: 	edance for the measured also connected to the n/50uH coupling imported to the block diagram of checked for maximus d the maximum emister all of the interface c	uring equipment the main power to edance with 50 of the test setup m conducted asion, the relative ables must be o	it. hrough a ohm o and ve
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.2 for details			
Test environment:	Temp.: 25 °C Hun	nid.: 52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz		·	

The EUT is powered by the Battery, So this test item is not applicable for the EUT.



Test Requirement: Test Method:		FCC Part15 C Section 15.247 (b)(3) ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02							
Limit:	30dBm								
Test setup:	Power Ma	Non-Conducted Tabl							
Test Instruments:	Refer to sec	tion 6.0 for d	letails						
Test mode:	Refer to sec	Refer to section 5.2 for details							
Test results:	Pass	Pass							
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar			

6.2. Conducted Output Power

Measurement Data

Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	-16.63		
Middle	-11.78	30.00	Pass
Highest	-9.55		



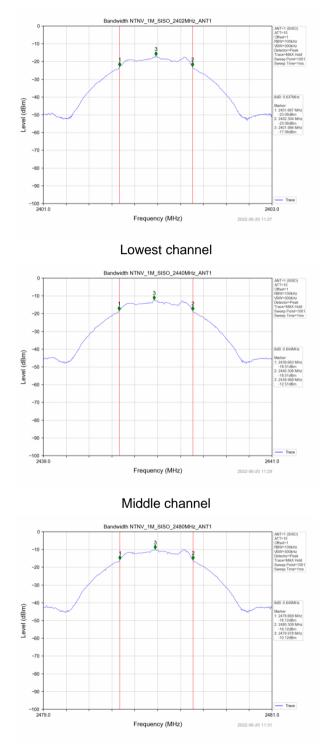
6.3. Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)								
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02								
Limit:	>500KHz								
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane								
Test Instruments:	Refer to section 6.0 for details								
Test mode:	Refer to section 5.2 for details								
Test results:	Pass								
Test environment:	Temp.:25 °CHumid.:52%Press.:1012mbar								

Measurement Data

Test channel	Channel Bandwidth (MHz)	Limit(KHz)	Result
Lowest	0.637		
Middle	0.644	>500	Pass
Highest	0.640		





Test plot as follows:

Highest channel



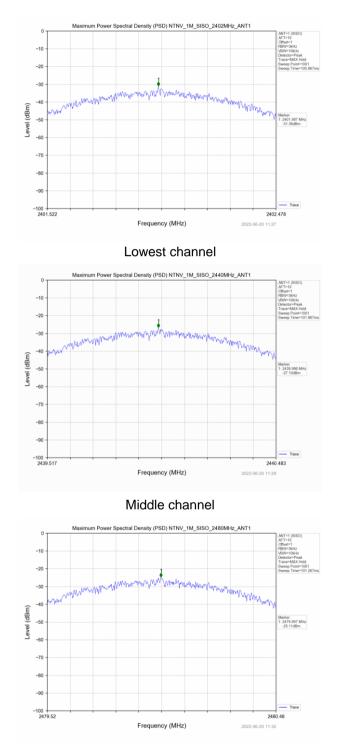
Test Requirement: Test Method:		FCC Part15 C Section 15.247 (e) ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02								
Limit:	8dBm/3kHz	8dBm/3kHz								
Test setup:	Sp		Conducted Tabl							
			l Reference Pla	ine						
Test Instruments:	Refer to see	ction 6.0 for d	letails							
Test mode:	Refer to see	ction 5.2 for d	letails							
Test results:	Pass	Pass								
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar				

6.4. Power Spectral Density

Measurement Data

Test channel	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result
Lowest	-31.36		
Middle	-27.10	8.00	Pass
Highest	-25.11		





Test plot as follows:

Highest channel

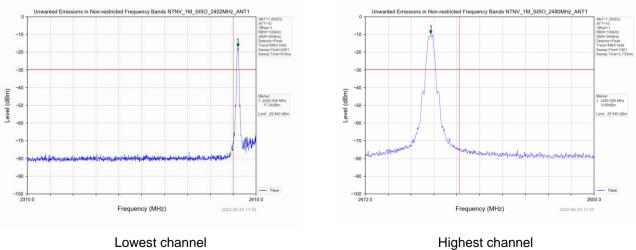


6.5. Band edges

6.5.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)								
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02								
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.								
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane								
Test Instruments:	Refer to section 6.0 for details								
Test mode:	Refer to section 5.2 for details								
Test results:	Pass								
Test environment:	Temp.:25 °CHumid.:52%Press.:1012mbar								

Test plot as follows:



Lowest channel

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6.5.2 Radiated Emission Method

Test Requirement:	FCC Part15	C Section 1	5.209 a	and 15.205	;						
Test Method:	ANSI C63.10:2013										
Test Frequency Range:		All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.									
Test site:	Measuremer	Measurement Distance: 3m									
Receiver setup:	Frequency Detector RBW VBW Value										
•		Pos		1MHz	3MH	z I	Peak				
	Above 1GH	IZ RM	S	1MHz	3MH	z Av	verage				
Limit:	Free	quency	l	_imit (dBu`	//m @3m		/alue				
				54.			/erage				
	ADOV	/e 1GHz		74.	00		Peak				
	Tum Tablev <150cm>,		< 3m	> Test Antem	1						
Test Procedure:	1. The EUT	was placed			Preamplifier+ tating tab	} ole 1.5 mete	rs above				
	 determine 2. The EUT antenna, v tower. 3. The anten ground to horizontal measuren 4. For each and then to and the ro the maxim 5. The test-r Specified 6. If the emis limit speci the EUT v 10dB mar average n 7. The radial And found worst case 	which was n na height is determine t and vertica nent. suspected e the antenna ota table was num reading receiver syst Bandwidth ssion level o ified, then te would be rep rgin would be nethod as sp tion measur d the X axis e mode is re	of the eters a nounted varied he max polariz missio was tu s turned to the E sting c vorted. e re-tes position corded	highest ra way from d on the to from one kimum valu zations of n, the EUT ned to hei d from 0 do s set to Pe iximum Ho UT in peal ould be sto Otherwise sted one by d and then s are perfo-	adiation. the interfa p of a value meter to ue of the the anten was arranged ghts from egrees to wak Detector old Mode. a mode w opped an the emis y one usin reported rmed in 2 it is wors	erence-rece riable-heigh four meters field strengt na are set t anged to its 1 meter to 360 degree t Function a vas 10dB low d the peak sions that d ng peak, qu in a data sh ζ , Y, Z axis	eiving t antenna above the ch. Both o make the worst case 4 meters es to find and wer than the values of lid not have asi-peak or neet. positioning.				
Test Instruments:	Refer to sect										
Test mode:	Refer to sect	tion 5.2 for c	letails								
Test results:	Pass										
	Temp.: 25 °C Humid.: 52% Press.: 1012mbar										

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Shenzhen, Guangdong, China



Measurement Data

Operation Mode: GFSK TX Low channel(2402MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2390	58.69	26.20	5.72	33.30	57.31	74	-16.69	peak
2390	46.05	26.20	5.72	33.30	44.67	54	-9.33	AVG

Vertical:

Frequency	Meter Reading	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2390	60.13	26.20	5.72	33.30	58.75	74	-15.25	peak
2390	46.24	26.20	5.72	33.30	44.86	54	-9.14	AVG

Operation Mode: GFSK TX High channel (2480MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	55.24	28.60	6.97	32.70	58.11	74	-15.89	peak
2483.5	41.96	28.60	6.97	32.70	44.83	54	-9.17	AVG

Vertical:

Frequency	Meter Reading	Antenna Factor	Cable Loss	Preamp Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	57.01	28.60	6.97	32.70	59.88	74	-14.12	peak
2483.5	41.92	28.60	6.97	32.70	44.79	54	-9.21	AVG

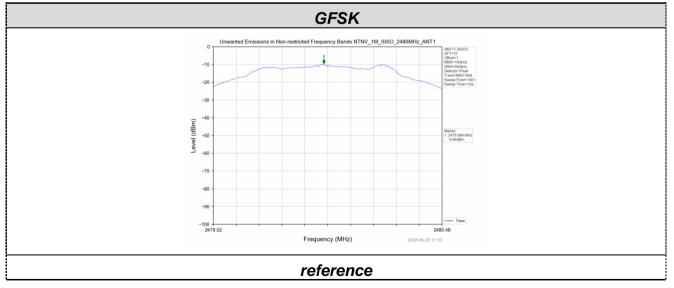


6.6. Spurious Emission

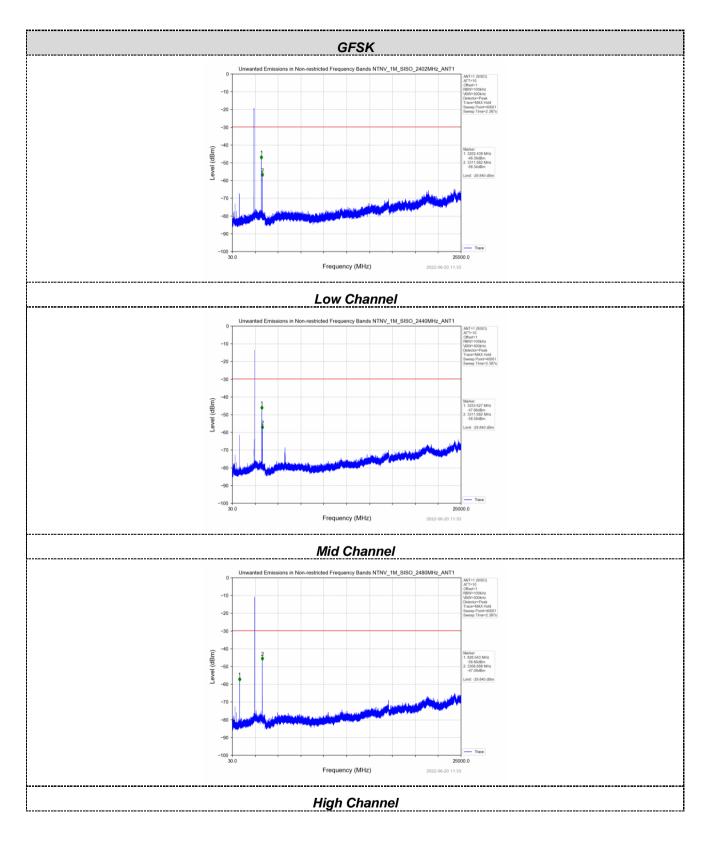
6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)							
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02							
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.							
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane							
Test Instruments:	Refer to section 6.0 for details							
Test mode:	Refer to section 5.2 for details							
Test results:	Pass							
Test environment:	Temp.:25 °CHumid.:52%Press.:1012mbar							

Test plot as follows:







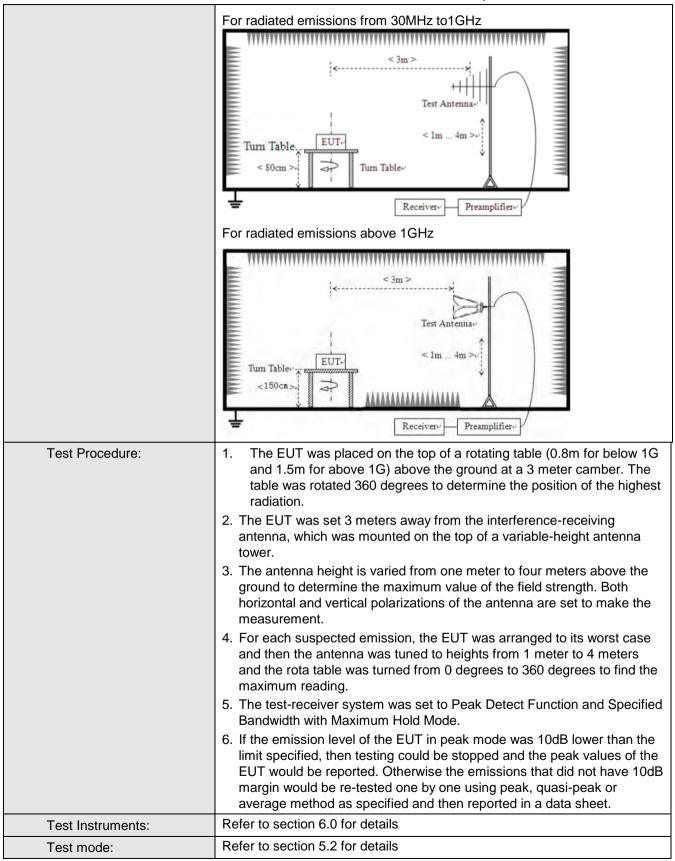


6.6.2 Radiated Emission Meth									
Test Requirement:	FCC Part15 C Section	on 15	5.209						
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz								
Test site:	Measurement Distar	nce: 3	3m						
Receiver setup:	Frequency	0	Detector	RB\	Ν	VBW	Value		
	9KHz-150KHz	Qı	uasi-peak	200	Ηz	600Hz	z Quasi-peak		
	150KHz-30MHz	Qı	uasi-peak	9KF	lz	30KH:	z Quasi-peak		
	30MHz-1GHz	Qı	uasi-peak	120K	Hz	300KH	lz Quasi-peak		
	Above 1GHz		Peak	1MF	Ηz	3MHz	z Peak		
			Peak	1MF	Ηz	10Hz	Average		
Limit:	Frequency		Limit (u\	//m)	V	alue	Measurement Distance		
	0.009MHz-0.490M	Hz	2400/F(k	(Hz)		QP	300m		
	0.490MHz-1.705M	Hz	24000/F(KHz)		QP	30m		
	1.705MHz-30MH	Z	30		QP		30m		
	30MHz-88MHz		100		QP				
	88MHz-216MHz		150		QP				
	216MHz-960MH	Z	200		QP		3m		
	960MHz-1GHz		500		QP		0111		
	Above 1GHz		500		Av	erage			
			5000		Peak				
Test setup:	For radiated emissions from 9kHz to 30MHz								
	S0cm > Im Tum Table- Receiver-								

6.6.2 Radiated Emission Method



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				перент	0 111 12022	000001 01	
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar	
Test voltage:	AC 120V, 60Hz						
Test results:	Pass						

Measurement data:

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

■ 9kHz~30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

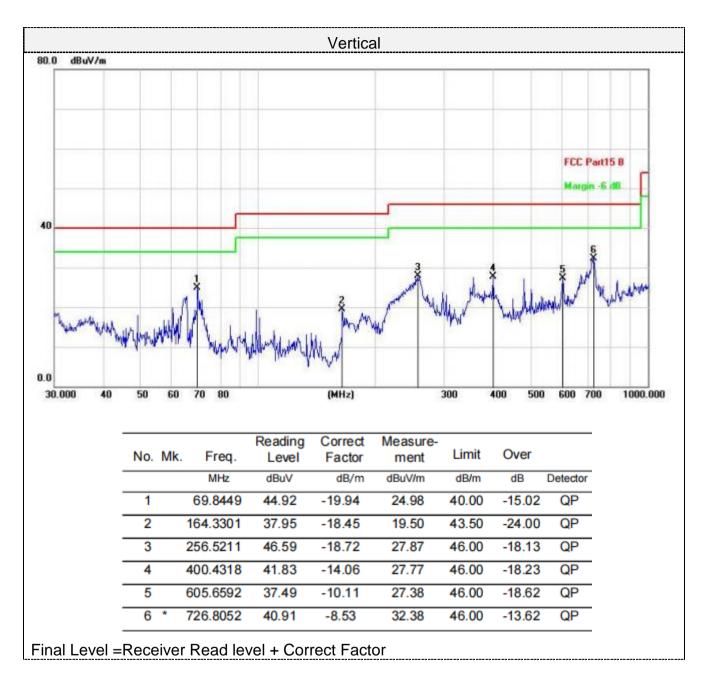


						Horiz	ontal					
30.0 dBuV/m												
40								A MAN MAR	Lunity	Mar	Part19	Г
					· ····	Mil			W	half and		
0.0 30.000 40	Myynury 50	60	70 80	hidda	Martin	(MHz)		300	400 500		700	1000.000
	50 No.			Read	ding	(MHz) Correct	Measure- ment	300 Limit			700	1000.00
			70 80 Freq.	Read	ding vel	(MHz)	Measure- ment dBuV/m		400 500		_	1000.00
		Mk.	Freq.	Read	ding vel	(MHz) Correct Factor	ment	Limit	400 500 Over	0 600	r	1000.00
	No.	Mk. 1	Freq. MHz	Read Le dBu 0 46.0	ding vel v	(MHz) Correct Factor dB/m	ment dBuV/m	Limit dB/m	400 500 Over dB	0 600 Detector	r	1000.00
	No.	Mk. 1 1	Freq. MHz 69.5990	Read Le dBu 0 46.0 3 51.2	ding wel vvel vvel 25	(MHz) Correct Factor dB/m -18.91	ment dBuV/m 27.72	Limit dB/m 43.50	400 500 Over dB -15.78	0 600 Detector QP	r	1000.00
	No.	Mk. 1 1 * 2	Freq. MHz 69.5990 91.0738	Read Le dBu 0 46.0 3 51.1 4 59.0	ding wel vvel sv 63 25 98	(MHz) Correct Factor dB/m -18.91 -20.47	ment dBuV/m 27.72 30.78	Limit dB/m 43.50 43.50	400 500 Over dB -15.78 -12.72	0 600 Detector QP QP	- - -	1000.00
0.0 30.000 40	No.	Mk. 1 1 * 2 3	Freq. MHz 69.5990 91.0738 60.1444	Read Le dBu 0 46.0 3 51.0 4 59.0 2 52.0	ding vel JV 63 25 98 02	(MHz) Correct Factor dB/m -18.91 -20.47 -18.68	ment dBuV/m 27.72 30.78 41.30	Limit dB/m 43.50 43.50 46.00	400 500 Over dB -15.78 -12.72 -4.70	Detector QP QP QP	- -	1000.00

Below 1GHz

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Above 1-25GHz

CH Low (2402MHz)

Horizontal:

110	nzontai.			_				
		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
								Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4804	51.32	31.40	8.18	32.10	58.80	74.00	-15.20	peak
4804	36.04	31.40	8.18	32.10	43.52	54.00	-10.48	AVG
7206	44.26	35.80	10.83	31.40	59.49	74.00	-14.51	peak
7200	44.20	55.00	10.05	51.40	55.45	74.00	-14.51	реак
7206	28.18	35.80	10.83	31.40	43.41	54.00	-10.59	AVG
Pomark: Eacto	r = Antenna Fac	tor + Cable Los	s – Pro-amplifio					
main. Facto	n = Antenna Fac	IUI + Cable LUS	s – rie-ampilliei					

Vertical:

vort								
		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
								Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4804	52.31	31.40	8.18	32.10	59.79	74.00	-14.21	peak
4804	36.14	31.40	8.18	32.10	43.62	54.00	-10.38	AVG
7206	42.89	35.80	10.83	31.40	58.12	74.00	-15.88	peak
7206	28.59	35.80	10.83	31.40	43.82	54.00	-10.18	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.



CH Middle (2440MHz)

Ho	rizontal:							
		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
								Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4880	51.32	31.40	9.17	32.10	59.79	74.00	-14.21	peak
4880	36.04	31.40	9.17	32.10	44.51	54.00	-9.49	AVG
7320	44.96	35.80	10.83	31.40	60.19	74.00	-13.81	peak
7320	29.07	35.80	10.83	31.40	44.30	54.00	-9.70	AVG

Vertical:

		Antonno		Droomn				
		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
								Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4880	50.33	31.40	9.17	32.10	58.80	74.00	-15.20	peak
4880	35.15	31.40	9.17	32.10	43.62	54.00	-10.38	AVG
7320	44.39	35.80	10.83	31.40	59.62	74.00	-14.38	peak
7320	28.75	35.80	10.83	31.40	43.98	54.00	-10.02	AVG
Remark: Facto	or = Antenna Fac	tor + Cable Los	s – Pre-amplifier					



CH High (2480MHz)

Horizontal:

		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
	Ŭ							Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4960	50.25	31.40	9.17	32.10	58.72	74.00	-15.28	peak
4960	37.15	31.40	9.17	32.10	45.62	54.00	-8.38	AVG
7440	44.96	35.80	10.83	31.40	60.19	74.00	-13.81	peak
7440	29.07	35.80	10.83	31.40	44.30	54.00	-9.70	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

		Antenna		Preamp				
Frequency	Meter Reading	Factor	Cable Loss	Factor	Emission Level	Limits	Margin	
								Detector
(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4960	50.88	31.40	9.17	32.10	59.35	74.00	-14.65	peak
4960	36.14	31.40	9.17	32.10	44.61	54.00	-9.39	AVG
7440	43.06	35.80	10.83	31.40	58.29	74.00	-15.71	peak
7440	30.10	35.80	10.83	31.40	45.33	54.00	-8.67	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

(1) Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(2) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed.



7. Test Setup Photo

Reference to the **appendix I** for details.

8. EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----